FORMULAS

'The laws of nature are but the mathematical thoughts of God.'
Euclid

FORMULA No.
W41

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We are not mathematicians, but we love mathematics and create formulas ourselves.

'No other science boosts the faith in the strength of the human spirit like mathematics.'
Hugo Steinhaus

1 WEEK = 7 DAYS = 7 FORMULAS

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} sin\left(\frac{3^k \times \pi}{5^k}\right) \times sin\left(\frac{3^k \times \pi}{4 \times 5^k}\right) = \frac{2+\sqrt{2}}{4}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k - 1}{(9 \times k^2 - 18 \times k + 10) \times (9 \times k^2 + 1)} = \frac{1}{9}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\ ctg\left((k+2)\times\sqrt{k+1}+(k+3)\times\sqrt{k}-2\times\sqrt{k\times(k+1)}-2\times k-1\right)=\frac{\pi}{2}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 32 \times k + 129}{(k+7) \times (k+8) \times (k+9) \times (k+10)} = \frac{17}{80}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} 3^{k-1} \times sin^3\left(\frac{\pi}{8 \times 3^{k+1}}\right) =$$

$$= \frac{\pi - 3 \times \left(\sqrt{2} + \sqrt{6} - 2\right) \times \sqrt{8 + 2 \times \sqrt{6} - 4 \times \sqrt{2} - 4 \times \sqrt{3}}}{96}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} \frac{2 \times k^2 + 4 \times k - 3}{(10 \times k^2 + 34 \times k + 37) \times (10 \times k^2 + 54 \times k + 81)} = \frac{1}{270}$$

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$$k \in N$$

$$\sum_{k=1}^{k=\infty} arc\,tg\left(\frac{2^{k+1}}{2\times(2^{k-1}-1)\times(2^{k}-1)+2^{2\times k+2}}\right)=arc\,tg\left(\frac{1}{2}\right)$$

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We invite you every week and every day to our website www.and-just-math.com

Thanks for:
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